

## 1 CLAIMS OF THE INVENTION

2 1. The Theory of Bell's palsy based on scientific evidences and proofs comprises:

3 facial paralysis is preceded by abnormal, altered or decreased sensations of the  
4 facial structures;

5 facial paralysis is preceded by abnormal, altered or decreased activities of the facial  
6 structures;

7 two types of facial paralysis based on two distinct inciting etiologies wherein a first  
8 facial paralysis is caused by a first viral, bacterial, spirochetal or fungal infection;

9 said first facial paralysis is caused by the compression and ischemia of the facial  
10 nerve;

11 two types of facial paralysis based on two distinct etiologies wherein a second facial  
12 paralysis is caused by a second vascular etiology associates with cardiovascular  
13 diseases

14 two types of facial paralysis based on two distinct etiologies wherein a second facial  
15 paralysis is caused by a second vascular etiology associates with endocrinologic  
16 diseases

17 two types of facial paralysis based on two distinct etiologies wherein a second facial  
18 paralysis is caused by a second vascular etiology associates with rheumatologic  
19 diseases;

20 two types of facial paralysis based on two distinct etiologies wherein a second facial

- 1        paralysis is caused by a second vascular etiology associates with trauma;
- 2        said second facial paralysis is caused by the compression and ischemia of the facial
- 3        nerve;
- 4        said second facial paralysis associates with vascular etiology, in general, is more
- 5        virulent than said first facial paralysis;
- 6        said second facial paralysis associates with vascular etiology, in general, is more
- 7        severe;
- 8        said second facial paralysis associates with vascular etiology, in general, has the
- 9        tendency towards poorer outcomes than said first facial paralysis;
- 10       a mathematic means for defining the duration of the facial paralysis and recovery time
- 11       from the facial paralysis; and
- 12       a process of managing the etiologies of facial paralysis.
- 13    2. The Theory of Bell's palsy according to claim 1 wherein said process of managing the
- 14    etiologies facial paralysis is the use of a drug means for treating the inciting
- 15    cardiovascular cause.
- 16    3. The Theory of Bell's palsy according to claim 1 wherein said process of managing the
- 17    etiologies of facial paralysis is the use of a drug means for treating hypertension.
- 18    4. The Theory of Bell's palsy according to claim 1 wherein said process of managing the
- 19    etiologies of facial paralysis is the use of a drug means for treating the inciting
- 20    endocrinologic cause.

1 5. The Theory of Bell's palsy according to claim 1 wherein said process of managing the  
 2 etiologies of facial paralysis is the use of a drug means for treating the inciting  
 3 rheumatologic cause.

4 6. The Theory of Bell's palsy according to claim 1 wherein said process of managing the  
 5 etiologies of facial paralysis is the use of a drug means for treating the inciting trauma  
 6 cause.

7 7. The Theory of Bell's palsy according to claim 1 wherein said process of managing the  
 8 etiologies of facial paralysis is the injection of local anesthetics onto the facial nerve;

9 8. The Theory of Bell's palsy according to claim 1 wherein a mathematic means for  
 10 defining the duration of the facial paralysis and recovery time from the facial paralysis is  
 11 an equation  $Y = f(X) + K$

12 9. The equation according to claim 8 is  $Y = c_1 A + c_2 B^{c_3 Z} + K$ .

13 10. The Theory of Bell's palsy according to claim 1 wherein a mathematic means for  
 14 defining the duration of the facial paralysis and recovery time from the facial paralysis is  
 15 a plurality of graphs and their derivatives.

16 11. A method of treating the infection, cardiovascular, endocrinologic and rheumatologic  
 17 diseases causing unilateral and bilateral facial paralysis based on the Theory of Bell's  
 18 palsy formed by scientific evidences comprising two types of facial paralysis based on  
 19 two distinct inciting etiologies wherein a first facial paralysis is caused by a first viral,  
 20 bacterial, spirochetal or fungal infection and wherein a second facial paralysis is caused  
 21 by a second vascular etiology associates with cardiovascular, endocrinologic and  
 22 rheumatologic diseases ; wherein said second facial paralysis associates with vascular  
 23 etiology, in general, is more virulent than said first facial paralysis comprises:

- 1 a process of using a drug means for treating the inciting cardiovascular cause;
- 2 a process of using drug means for treating hypertension;
- 3 a process of using drug means for treating the inciting endocrinologic cause;
- 4 a process of using drug means for treating the inciting rheumatologic cause;
- 5 a process of using a drug means for treating the inciting trauma cause; and
- 6 a process of injecting a local anesthetics onto the facial nerve.

7 12. The process of using a drug means for treating the inciting trauma cause according to  
8 claim 11 includes the process of using a diuretics.

9 13. A standard of medical treatment of Bell's palsy based on the Theory of Bell's palsy  
10 derived from scientific evidences comprising facial paralysis is preceded by the abnormal,  
11 altered or decreased sensations and activities of the structures of the face and mouth, two  
12 types of facial paralysis based on two distinct inciting etiologies wherein a first facial  
13 paralysis is caused by a first viral, bacterial, spirochetal or fungal infection, wherein said  
14 first facial paralysis is caused by the compression and ischemia of the facial nerve,  
15 wherein two types of facial paralysis based on two distinct etiologies wherein a second  
16 facial paralysis is caused by a second vascular etiology associates with cardiovascular,  
17 endocrinologic, rheumatologic diseases or trauma, wherein said second facial paralysis is  
18 caused by the compression and ischemia of the facial nerve, wherein said second facial  
19 paralysis associates with vascular etiology, in general, is more virulent than said first  
20 facial paralysis, said second facial paralysis associates with vascular etiology, in general,  
21 is more severe and has the tendency towards poorer outcomes than said first facial  
22 paralysis comprises:

1 a mathematic means for defining the duration of the facial paralysis and recovery time  
2 from the facial paralysis;

3 a process of using a drug means for treating an etiology of facial paralysis; and

4 a process of injecting a local anesthetics onto the facial nerve.

5 14. The standard of medical treatment according to claim 13 wherein said process of  
6 using a drug means for treating an etiology of facial paralysis is the process of using a  
7 drug means for treating the inciting cardiovascular cause.

8 15. The standard of medical treatment according to claim 13 wherein said process of  
9 using a drug means for treating an etiology of facial paralysis is the process of using a  
10 drug means for treating hypertension.

11 16. The standard of medical treatment according to claim 13 wherein said process of  
12 using a drug means for treating an etiology of facial paralys is the process of using a drug  
13 means for treating the inciting endocrinologic cause.

14 17. The standard of medical treatment according to claim 13 wherein said process of  
15 using a drug means for treating an etiology of facial paralysis is the process of using a  
16 drug means for treating inciting rheumatologic cause.

17 18. The standard of medical treatment according to claim 13 wherein said process of  
18 using a drug means for treating an etiology of facial paralysis is the process of using a  
19 drug means for treating inciting trauma cause.